

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 10 and 11 and AMEND claims 9 and 12-18 in accordance with the following:

1-8. (Cancelled)

9. (Currently Amended) A method of backward-signaling of a transmission service to be used, for setting up a call from a telecommunication network, comprising:

calling, from the telecommunication network, a mobile terminal in a service area of a destination mobile switching center in a digital mobile radio network via an access mobile switching center; and

sending an initial Bearer Capability from the destination mobile switching center to the mobile terminal;

negotiating, between the mobile terminal and the destination mobile switching center, information ~~fully~~ describing the transmission service to be used for the call so as to revise the initial Bearer Capability and determine a revised Bearer Capability, ~~the information including at least a Bearer Capability (PLMN-BC) information element;~~

converting the revised Bearer Capability at wherein the destination mobile switching center, the revised Bearer Capability being converted ~~converts the PLMN-BC information element into an Integrated Services Digital Network (ISDN) User Part (ISUP)-compliant (ISDN-BC) information element;~~ and

transporting wherein the Integrated Services Digital Network (ISDN) User Part (ISUP)-compliant (ISDN-BC) information element is stored in from the destination mobile switching center to the access mobile switching center ~~and is transported using at least one ISUP message at least to the access mobile switching center to effect the backward signaling~~

wherein the telecommunication network is an ISDN, a Public Switched Telephone Network (PSTN), or a Public Land Mobile Network (PLMN), and

wherein call setup is not completed until after the Integrated Services Digital Network (ISDN) User Part (ISUP)-compliant (ISDN-BC) information element is transported to the access mobile switching center.

10. (Cancelled)

11. (Cancelled)

12. (Currently Amended) The method according to claim 11, wherein the at least one ISUP message is an Address Complete Message (ACM), an Answer Message (ANM), a Connect Message (CON), or a Call Progress Message (CPG).

13. (Currently Amended) The method according to claim 11, wherein the information describing the transmission service is made available in an optional Access Transport parameter in the at least one ISUP message.

14. (Currently Amended) The method according to claim 9, wherein the information describing the transmission service is evaluated in the access mobile switching center in order to execute transmission service specific functions contained therein.

15. (Currently Amended) The method according to claim 9, further comprising transmitting the information describing the transmission service to at least one network node in the digital mobile radio network or in the telecommunication network to be involved in the call.

16. (Currently Amended) The method according to claim 9, wherein the information describing the transmission service comprises a Low Layer Compatibility information element (LLC) or a High Layer Compatibility information element (HLC).

17. (Currently Amended) A system in which a transmission service is backward-sigaled, comprising:

- a destination mobile switching center in a digital mobile radio network, the destination mobile switching center having a service area;
- a mobile terminal in the service area; and
- a telecommunication network calling the mobile terminal via an access mobile switching center, the telecommunication network being an ISDN, a Public Switched Telephone Network (PSTN), or a Public Land Mobile Network (PLMN), wherein
the destination mobile switching center sends an initial Bearer Capability to the mobile

terminal;

the mobile terminal and the destination mobile switching center so as to negotiate information fully describing a transmission service to be used for a call to be set up between the telecommunication network and the mobile terminal, so as to revise the initial Bearer Capability and determine a revised the information including at least a Bearer Capability (PLMN-BC) information element,

wherein the destination mobile switching center converts the revised Bearer Capability PLMN-BC information element into an Integrated Services Digital Network (ISDN) User Part (ISUP)-compliant (ISDN-BC) information element,

wherein the destination mobile switching center receives the information and stores the received information, and

wherein the Integrated Services Digital Network (ISDN) User Part (ISUP)-compliant (ISDN-BC) information element is transported using at least one ISUP message, from the destination mobile switching center at least to the access mobile switching center to effect the backward signaling, and

call setup is not completed until after the Integrated Services Digital Network (ISDN) User Part (ISUP)-compliant (ISDN-BC) information element is transported to the access mobile switching center.

18. (Currently Amended) A destination mobile switching center in a digital mobile radio network for communicating between an access mobile switching center and a mobile terminal within a service area of the destination mobile switching center, the destination mobile switching center comprising:

a negotiation unit to send an initial Bearer Capability to the mobile terminal, to negotiate information fully describing a transmission service to be used for a call to be set up between a home telecommunication network and the mobile terminal, and to revise the initial Bearer Capability and determine a revised Bearer Capability the information including at least a Bearer Capability (PLMN-BC) information element;

a memory to store the PLMN-BC information element;

a conversion unit to convert the revised Bearer Capability PLMN-BC information element into an Integrated Services Digital Network (ISDN) User Part (ISUP)-compliant (ISDN-BC) information element; and

a transmitter to transmit the Integrated Services Digital Network (ISDN) User Part (ISUP)-compliant (ISDN-BC) information element using at least one ISUP message to the access

mobile switching center to effect the backward signaling, wherein

the telecommunication network is an ISDN, a Public Switched Telephone Network (PSTN), or a Public Land Mobile Network (PLMN), and

call setup is not completed until after the Integrated Services Digital Network (ISDN) User Part (ISUP)-compliant (ISDN-BC) information element is transmitted to the access mobile switching center.